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United States
Department of
Agriculture

Soil
Conservation
Service

Spokane,
Washington



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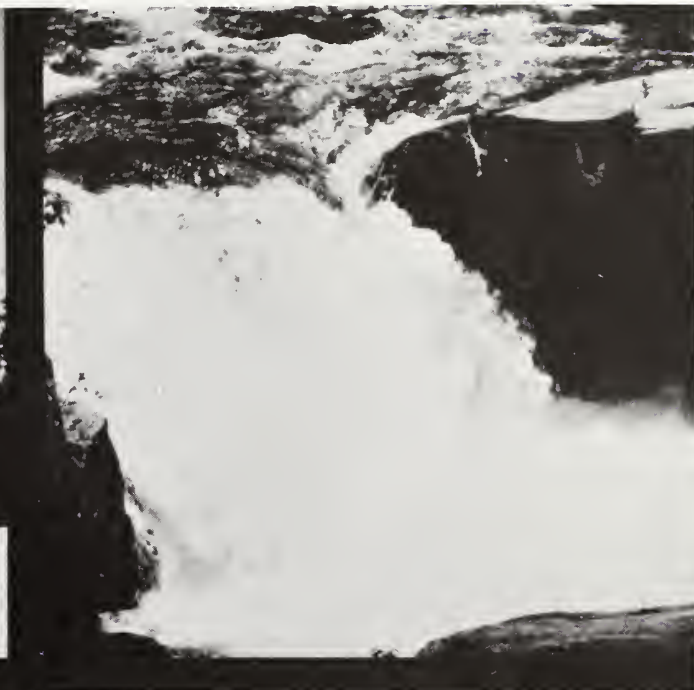
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Washington Water Supply Outlook

MAY 1, 1988

JUN 3 '88

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Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are terms reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Denver, CO 80211
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 87102-3157
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201-1080
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 248, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

Washington Water Supply Outlook

and

**Federal — State — Private
Cooperative Snow Surveys**

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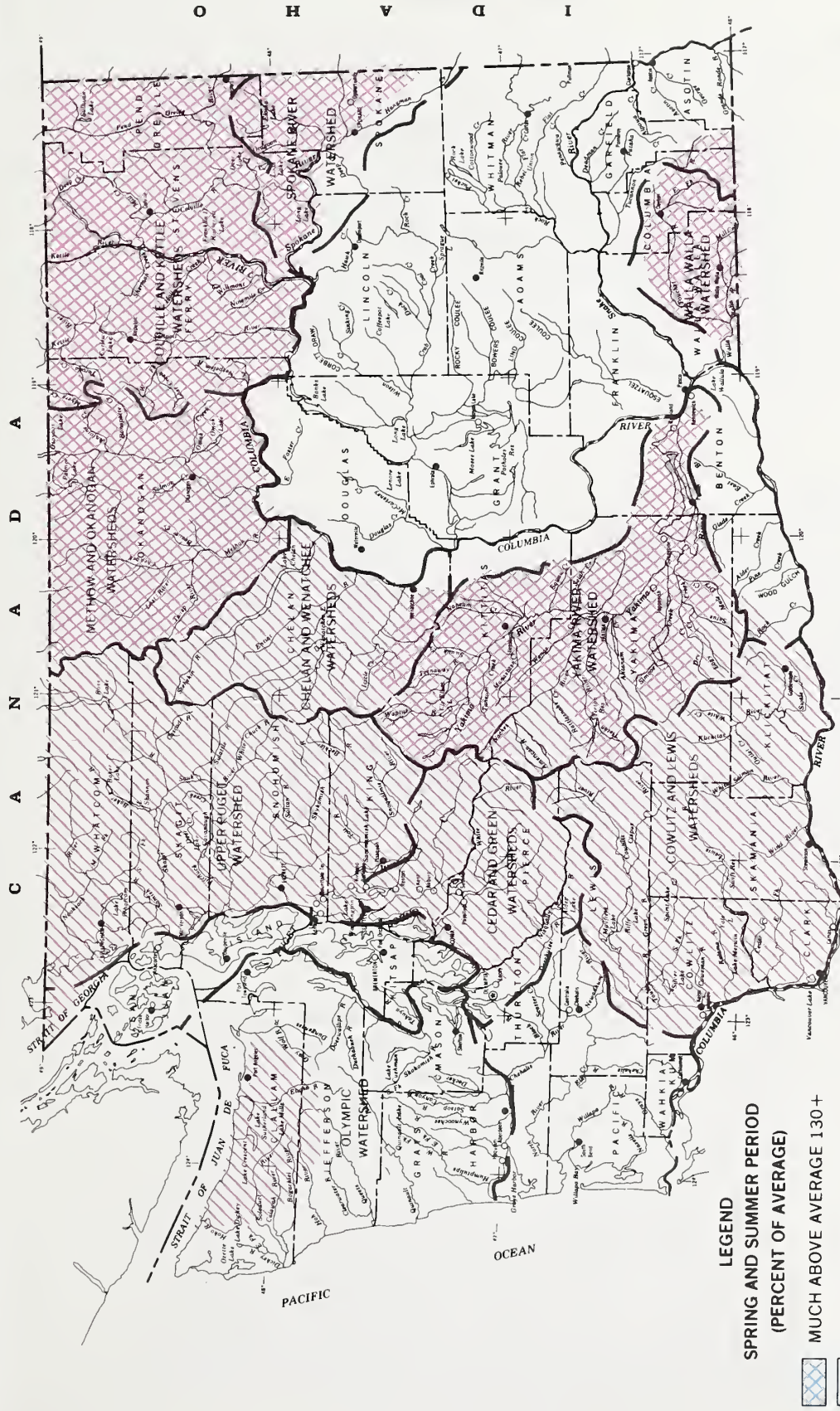
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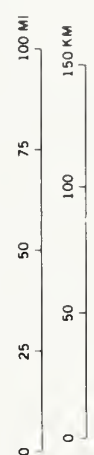
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MAY 1, 1988

STREAMFLOW PROSPECTS WASHINGTON



SOURCE: Data compiled by SCS
Field Personnel

GENERAL OUTLOOK

SUMMARY:

NOTICE: SEE BACK PAGE FOR REVISION OF FREE MAILING LIST. April streamflow was above normal for the first time this year. Temperatures were above the season normal for the month. Runoff for 1988 is forecasted to be below to much below normal in Washington. The snowpack, except in the Olympic basins is below to much below normal. April precipitation was above normal except in the Colville basin. Reservoir storage remains below normal at the major irrigation projects throughout the state, with the reservoirs in the Yakima only 75% of normal.

SNOWPACK:

Snow pack in most areas of Washington remains below normal and varies as follows: the Spokane Basin 55% down from 71% last month, Colville - Pend Oreille River 58% down from 75%, the Wenatchee 74% down from 79%, Chelan Basin 92% down from 102%, and the Yakima Basin 71%, down from 81% last month. On the western slopes of the Cascades the Lewis and Cowlitz basins are at 75%, the Skagit 82%, and Green 80% of normal. The Olympic area has 99% for the best average around the state. Maximum snow pack is at Paradise Park snow course in the Cowlitz Basin, with 67.1 inches of water content, up from 62.7 inches last month.

PRECIPITATION:

April precipitation values from National Weather Service data for Washington showed all basins with above normal precipitation except the Colville area. Western Washington varied from 126% in the south to 164% in the north puget area. Diablo Dam reported 9.38 inches for 202% of average. In Eastern Washington the Pend Oreille Basin had 92% of normal, the Spokane with 136%, Yakima at 169% and the Okanogan Basin with 182%. May 1 precipitation values from SNOTEL sites indicate a water year value near 83% of average for the high mountain areas of Washington. Water year to date precipitation is below average over most of the state. Values vary from 74% of normal in the Colville Basin to 90% in the Walla Walla basin.

RESERVOIRS:

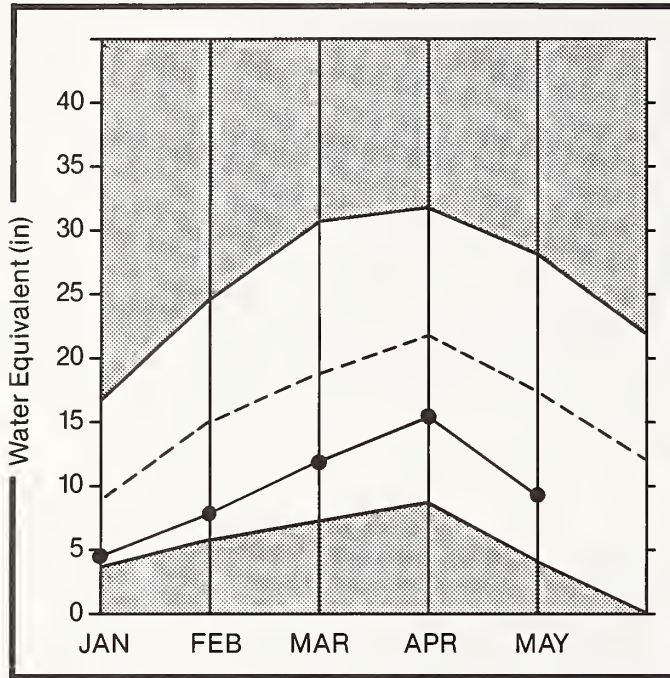
Storage at major reservoir remains varied in Washington. May 1 reservoir storage are: Coeur d'Alene Lake 248,200, 111% of capacity, Chelan Lake 263,700 acre feet, 59% of average and up from 194,200 acre feet last month, Ross Lake 671,300 acre feet, up from 466,000 acre feet, Roosevelt Lake 64% of capacity and 257% of normal. Storage continues below average in the Yakima Basin with 583,400 acre feet, 75% of average and up from 328,900 acre feet, 45% of average last month. The Okanogan reservoirs are 99% of May 1 average.

STREAMFLOW:

May 1 forecasts, for summer runoff, vary from 39% in the Walla Walla River to 87% for the Entiat River. April streamflows were above normal over most of Washington. Streamflow varied from 73% on the Snake River to a maximum of 178% for the Skykomish River. On the west side of the Cascade Mountains, runoff from the Chehalis was 130% and 167% on the Skagit River. The eastern slope of the Cascades runoff on the Yakima was 137% and the Okanogan at 95% of average. In Eastern Washington streamflow was 102% of normal on the Pend Oreille and 119% on the Kettle River. Statewide forecasts for summer streamflow decreased about 5% from last month, as much of the snowpack ran off during April.

SPOKANE

Mountain snowpack* (inches)



*Based on selected stations

Maximum



Average



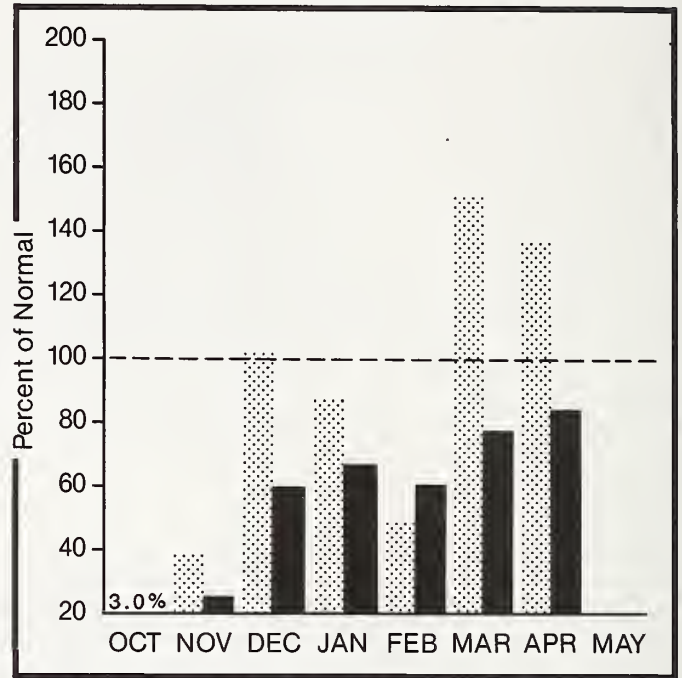
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation



Year to date precipitation



SPOKANE RIVER BASIN

WATER SUPPLY OUTLOOK:

Forecast of runoff for the Spokane River Basin is 51% of normal. This forecast is based upon a snow pack that is 55% of average and a water year to date precipitation value 83% of normal. Precipitation for April was 136% of normal. Maximum snow water occurred at the Lost Lake snow course, elevation 6110 feet with 39.1 inches of water content. May 1 storage in Coeur d' Alene Lake was 248,200 acre feet compared to 194,200 last Month; average storage in Cd'A for May 1 is 317,200 acre feet. April streamflow on the Spokane River was 99% of average at Spokane.

For more information contact your local Soil Conservation Service office.

SPOKANE RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
SPOKANE at Post Falls	MAY-SEP	1956.0	1010.0	52	1560.0	80	490.0	25
	MAY-JUL	1858.0	945.0	51	1355.0	73	535.0	29
SPOKANE at Long Lake	MAY-JUL	2097.0	1050.0	50	1510.0	72	590.0	28

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	USEABLE THIS YEAR	USEABLE LAST YEAR	USEABLE STORAGE AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
COEUR D'ALENE	222.8	248.2	281.2	317.2	Spokane River	14	134 50

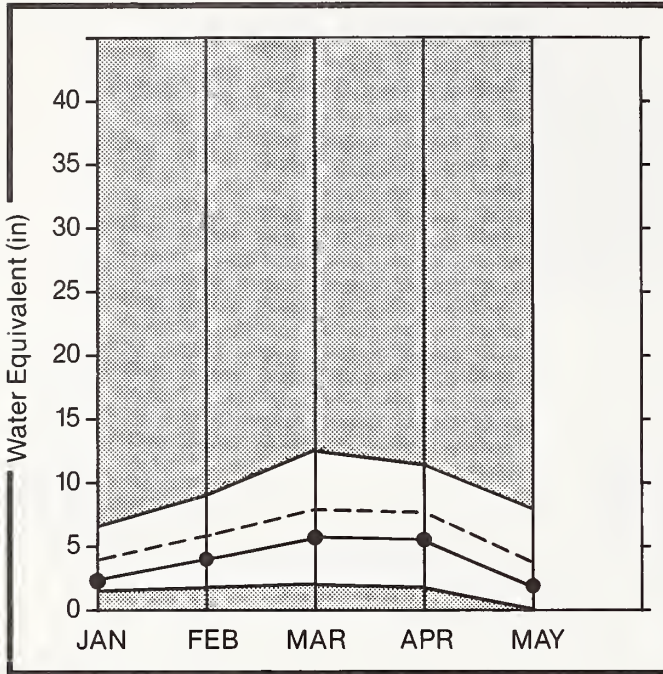
1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

COLVILLE AND PEND OREILLE

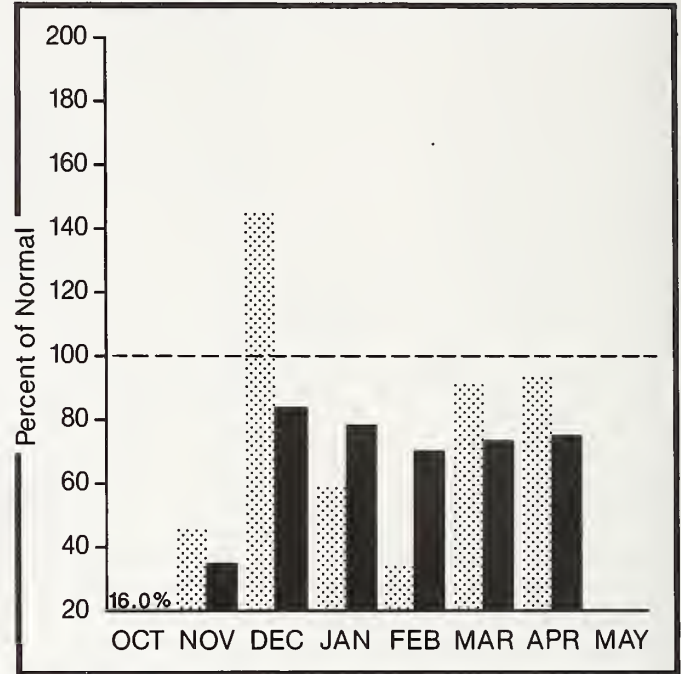
Mountain snowpack* (inches)



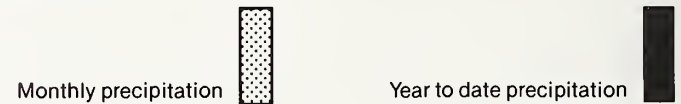
*Based on selected stations



Precipitation* (percent of normal)



*Based on selected stations



COLVILLE - PEND OREILLE RIVER BASINS

WATER SUPPLY OUTLOOK:

Precipitation during April was 92% of average, bringing the water year to date to 74% of normal. Snow cover basin-wide is 58% of average, down from 75% last month. Snow pack water equivalent for Bunchgrass Meadows Snotel is 15.3 inches of water. Forecasts for the Pend Oreille River are for flows to be 60% of normal for the summer. Other forecasts are 64%, for the Kettle River and 62% on the Colville River for the summer runoff period. Streamflows for April were 102% of average on the Pend Oreille River, 117% on the Kettle River and 130% on the Columbia River at the International Border. Temperatures on the upper Columbia were 3 degrees above normal for April.

For more information contact your local Soil Conservation Service office.

COLVILLE - PENO OREILLE RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
PENO OREILLE RIVER b1 Box Canyon 2	MAY-SEP	13100.0	7920.0	60	10540.0	80	5300.0	40
	MAY-JUL	11840.0	7090.0	60	9460.0	80	4720.0	40
	MAY-JUN	9879.0	5927.0	60	7905.0	80	3950.0	40
CHAMOKANE CREEK	MAY-AUG	9.2	5.1	55	9.0	98	2.0	22
	JUL-AUG	3.6	1.0	28	2.0	56	1.0	28
COLVILLE RIVER at Kettle Falls	MAY-SEP	89.0	55.0	62	88.0	99	22.0	25
	MAY-JUL	78.0	49.0	63	78.0	100	20.0	26
	MAY-JUN	68.0	44.0	65	69.0	101	19.0	28
KETTLE RIVER nr Laurier	MAY-SEP	1644.0	1050.0	64	1345.0	82	755.0	46
	MAY-JUL	1545.0	980.0	63	1260.0	82	700.0	45
	MAY-JUN	1362.0	870.0	64	1115.0	82	625.0	46
COLUMBIA RIVER at Birchbank 2	MAY-SEP	41540.0	35100.0	84	42160.0	101	28040.0	68
	MAY-JUL	32600.0	27200.0	83	32740.0	100	21660.0	66
	MAY-JUN	22800.0	19150.0	84	23025.0	101	15275.0	67
COLUMBIA RIVER at Grand Coulee 2	MAY-SEP	59780.0	46700.0	78	52675.0	88	40720.0	68
	MAY-JUL	49060.0	38300.0	78	43205.0	88	33395.0	68
	MAY-JUN	36760.0	28670.0	78	32345.0	88	24995.0	68

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVG.			
ROOSEVELT	5232.0	3369.2	4296.2	1310.0	Colville River	0	0 0
BANKS	715.0	677.5	693.5	435.0	Pend Oreille River	10	107 60
					Kettle River	7	127 55

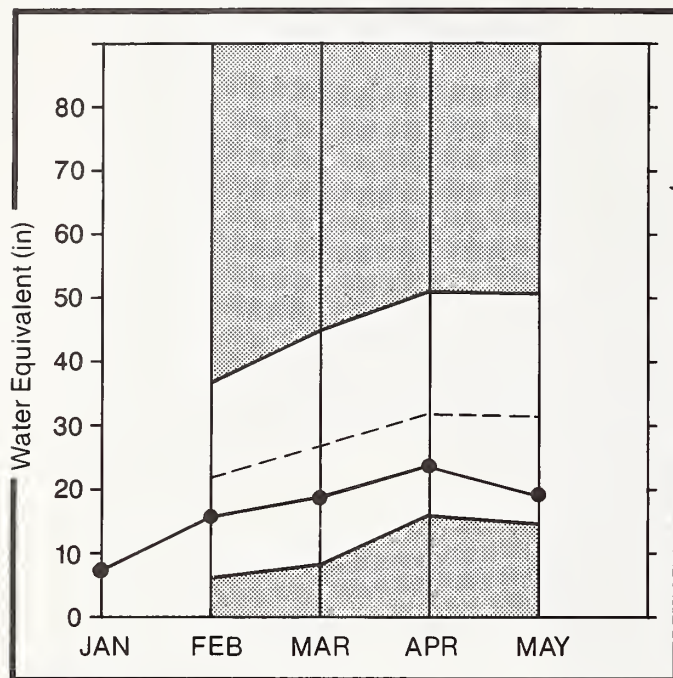
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2 - Corrected for upstream diversions or changes in reservoir storage.





The average is computed for the 1961-85 base period.

OKANOGAN AND METHOW

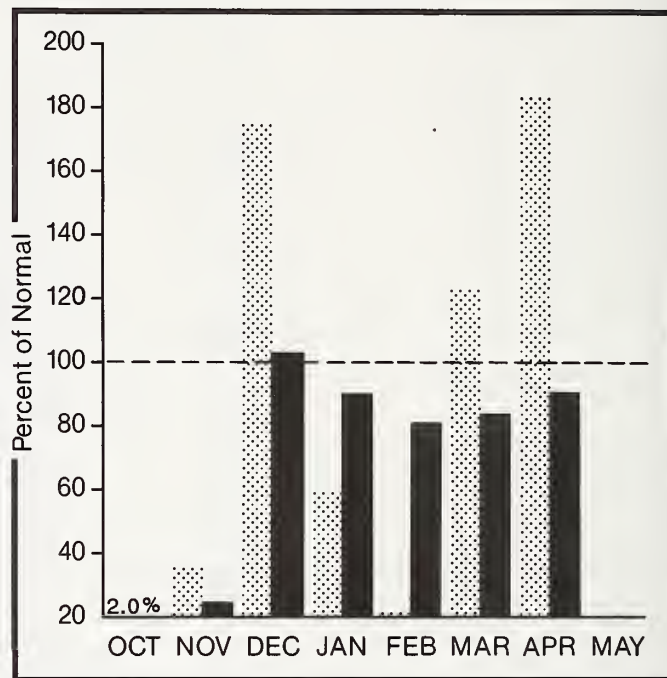
Mountain snowpack* (inches)





*Based on selected stations

Maximum  Average 
Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

OKANOGAN - METHOW RIVER BASINS

WATER SUPPLY OUTLOOK:

Summer runoff forecasted for the Okanogan River is 66% of normal. The Similkameen River 67% and the Methow River is 64% of normal. Okanogan River streamflow was at 95% of average for April. Storage in the Conconully Reservoirs is at 15,800 acre feet which is 67% of capacity and 59% of May 1 normal. April precipitation in the Okanogan was 182% with water year to date 90% of average. Snow cover as of May 1 is 60% of average on the Okanogan and 64% in the Methow Basin. Maximum snow water occurred at Harts Pass, elevation 6500 feet, with 35.5 inches of water in 81 inches of snow. Temperatures were 6 degrees above normal in Omak for April.

For more information contact your local Soil Conservation Service office.

OKANOGAN - METHOW RIVER BASINS

STREAMFLOW FORECASTS

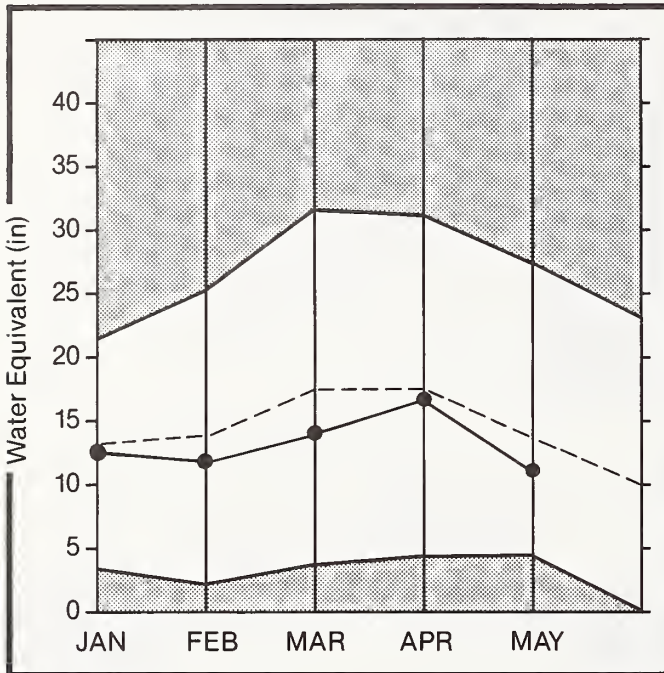
FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
SIMILKAMEEN R. nr Nighthawk	MAY-SEP	1345.0	895.0	67	1164.0	87	626.0	47
	MAY-JUL	1246.0	825.0	66	1074.0	86	576.0	46
	MAY-JUN	1042.0	700.0	67	908.0	87	492.0	47
OKANOGAN R. nr Tonasket	MAY-SEP	1527.0	1010.0	66	1254.0	82	766.0	50
	MAY-JUL	1367.0	905.0	66	1124.0	82	686.0	50
	MAY-JUN	1123.0	740.0	66	920.0	82	560.0	50
METHOW RIVER nr Pateros	MAY-SEP	898.0	575.0	64	791.0	88	359.0	40
	MAY-JUL	824.0	525.0	64	723.0	88	327.0	40
	MAY-JUN	687.0	440.0	64	605.0	88	275.0	40

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	THIS YEAR	USEABLE STORAGE LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
CONCONULLY LAKE (SALMON)	10.5	7.6	8.6	8.0	Okanogan River	26	100 57
CONCONULLY RESERVOIR	13.0	8.2	7.7	8.0	Methow River	2	92 36





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WENATCHEE AND CHELAN

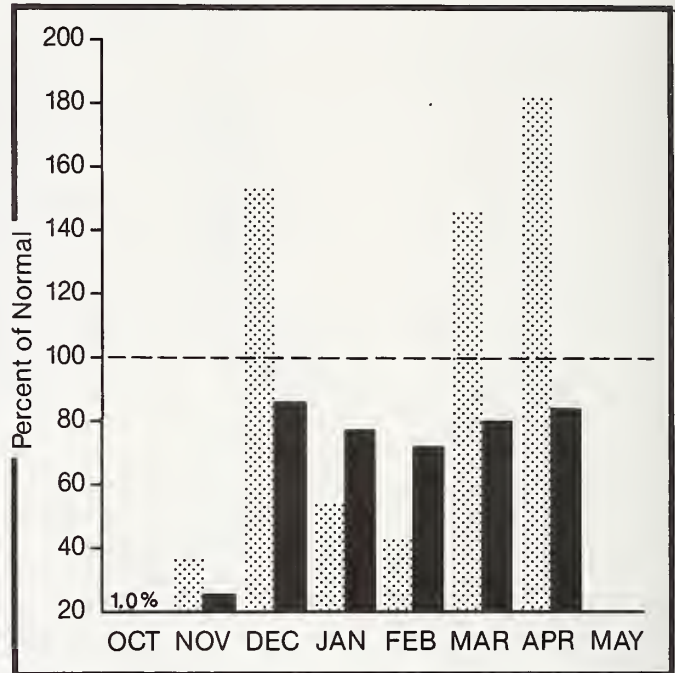
Mountain snowpack* (inches)





*Based on selected stations

Maximum  Average 
 Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WENATCHEE - CHELAN RIVER BASINS

WATER SUPPLY OUTLOOK:

Reservoir storage in Lake Chelan is at 263,700 acre feet or 59% of May 1 average and 39% of capacity. Runoff for the Wenatchee River is forecast to be 79% of normal for the summer. Forecasts in the Chelan and Stehekin River runoff are for 80% and 83% of average. April streamflow within the basin was 156% of normal on the Wenatchee and 166% on the Chelan River. Precipitation during April was 181% of normal in the basin bringing the water year to date to 83%. Snow pack in the Wenatchee is 74% of normal and in the Chelan Basin is 92% of normal. Lyman Lake SNOTEL had the most snow water with 62.4 inches on May 1. Temperatures during April were 2 degrees above average.

For more information contact your local Soil Conservation Service office.

WENATCHEE - CHELAN RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
CHELAN RIVER at Chelan 1	MAY-SEP	1075.0	855.0	80	1016.0	95	694.0	65
	MAY-JUL	931.0	735.0	79	875.0	94	595.0	64
	MAY-JUN	707.0	580.0	82	686.0	97	474.0	67
STEHEKIN R. at Stehekin	MAY-SEP	775.0	645.0	83	723.0	93	568.0	73
	MAY-JUL	645.0	535.0	83	600.0	93	471.0	73
	MAY-JUN	473.0	400.0	85	445.0	94	353.0	75
ENTIAT RIVER nr Ardenvoir	MAY-SEP	217.0	185.0	85	218.0	100	152.0	70
	MAY-JUL	195.0	165.0	85	194.0	99	136.0	70
	MAY-JUN	155.0	135.0	87	158.0	102	112.0	72
WENATCHEE RIVER at Plain	MAY-SEP	1136.0	895.0	79	1270.0	112	520.0	46
	MAY-JUL	1002.0	790.0	79	1121.0	112	459.0	46
	MAY-JUN	765.0	615.0	80	867.0	113	363.0	47
WENATCHEE R. at Peshastin	MAY-SEP	1489.0	1150.0	77	1641.0	110	659.0	44
	MAY-JUL	1327.0	1020.0	77	1458.0	110	582.0	44
	MAY-JUN	1027.0	790.0	77	1129.0	110	451.0	44
STEMILT nr Wenatchee (miners in)	MAY-SEP	138.0	72.0	52	118.0	86	26.0	19
ICICLE CREEK nr Leavenworth	APR-SEP	370.0	295.0	80	417.0	113	173.0	47
	APR-JUL	340.0	275.0	81	387.0	114	163.0	48
	APR-JUN	270.0	219.0	81	308.0	114	130.0	48
COLUMBIA R. bl Rock Island Dam 2	MAY-SEP	65060.0	50600.0	78	59855.0	92	46193.0	71
	MAY-JUL	53860.0	41900.0	78	49550.0	92	38240.0	71
	MAY-JUN	40550.0	31600.0	78	37305.0	92	28790.0	71

RESERVOIR STORAGE

(1000AF)

WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
CHELAN LAKE	676.1	263.7	213.1	448.8	Chelan Lake Basin	3	105	91
					Entiat River	0	0	0
					Wenatchee River	4	124	81
					Colockum Creek	1	0	0
					Squilchuck Creek	0	0	0
					Stemilt Creek	0	0	0

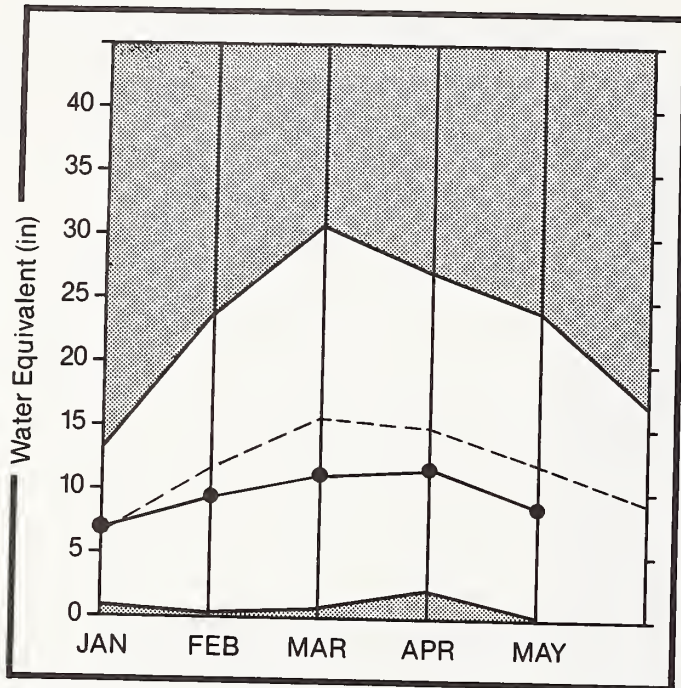
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YAKIMA

Mountain snowpack* (inches)



*Based on selected stations

Maximum



Average



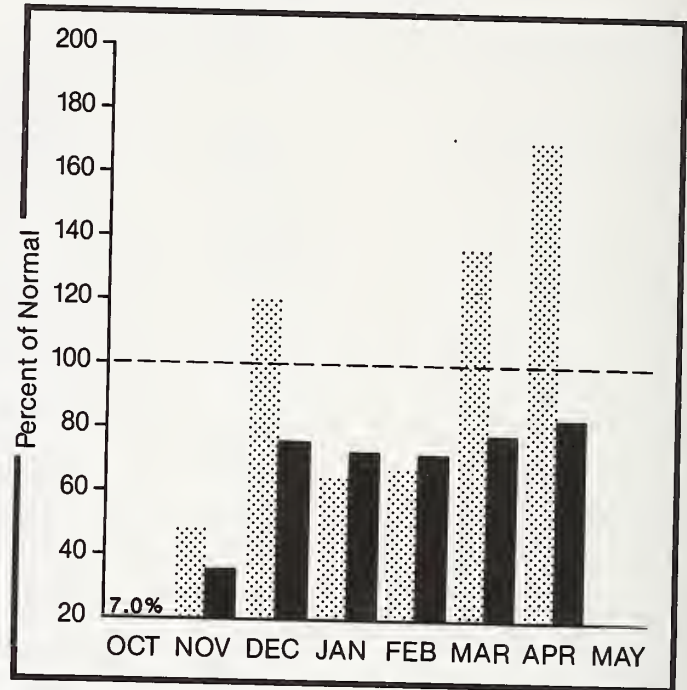
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation



Year to date precipitation



YAKIMA RIVER BASIN

WATER SUPPLY OUTLOOK:

April precipitation was 169% of normal and 84% for the water year to date. April streamflow for the Yakima Basin was 137% of normal. May 1 reservoir storage for the five major reservoirs was 583,400 acre feet up from 329,200 acre feet last month. Snow pack is 71% of average in the Yakima Basin based upon data from 15 snow course and SNOTEL readings. Forecasts for the Yakima Basin runoff vary throughout the basin as follows: the Yakima River at Cle Elum 62%, Naches River 69%, the Yakima River at Parker 63% and Ahtanum Creek 79%. Temperatures in Yakima were 2 degrees above normal during April.

For more information contact your local Soil Conservation Service office.

YAKIMA RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
YAKIMA RIVER at Martin 1	MAY-SEP	109.0	70.0	64	83.0	76	57.0	52
	MAY-JUL	100.0	67.0	67	79.0	79	55.0	55
	MAY-JUN	85.0	59.0	69	69.0	81	49.0	58
YAKIMA RIVER at Cle Elum 2	MAY-SEP	786.0	490.0	62	592.0	75	395.0	50
	MAY-JUL	682.0	420.0	62	509.0	75	340.0	50
	MAY-JUN	570.0	365.0	64	439.0	77	291.0	51
YAKIMA RIVER nr Parker 2	MAY-SEP	1682.0	1060.0	63	1380.0	82	740.0	44
	MAY-JUL	1469.0	925.0	63	1204.0	82	646.0	44
	MAY-JUN	1250.0	813.0	65	1051.0	84	576.0	46
KACHESS RIVER nr Easton 1	MAY-SEP	108.0	65.0	60	80.0	74	50.0	46
	MAY-JUL	89.0	53.0	60	65.0	73	41.0	46
	MAY-JUN	77.0	48.0	62	59.0	77	37.0	48
CLE ELUM RIVER nr Roslyn 1	MAY-SEP	393.0	265.0	67	314.0	80	218.0	55
	MAY-JUL	353.0	235.0	67	282.0	80	193.0	55
	MAY-JUN	289.0	199.0	69	234.0	81	164.0	57
BUMPING RIVER nr Nile 1	MAY-SEP	123.0	88.0	72	117.0	95	74.0	60
	MAY-JUL	112.0	80.0	72	106.0	95	67.0	60
	MAY-JUN	90.0	67.0	74	86.0	96	59.0	66
AMERICAN RIVER nr Nile	MAY-SEP	107.0	74.0	69	83.0	78	57.0	53
	MAY-JUL	97.0	67.0	69	76.0	78	52.0	54
	MAY-JUN	79.0	56.0	71	62.0	78	44.0	56
TIETON RIVER at Tieton 1	MAY-SEP	213.0	137.0	64	170.0	80	95.0	45
	MAY-JUL	177.0	113.0	64	141.0	80	80.0	45
	MAY-JUN	136.0	90.0	66	112.0	82	68.0	50
NACHES RIVER nr Naches 2	MAY-SEP	726.0	500.0	69	655.0	90	365.0	50
	MAY-JUL	645.0	445.0	69	580.0	90	320.0	50
	MAY-JUN	533.0	380.0	71	455.0	85	305.0	57
ANTANUM CREEK nr Tampico 2	MAY-SEP	39.0	31.0	79	43.0	110	17.0	44
	MAY-JUL	35.0	28.0	80	38.0	109	16.0	46
	MAY-JUN	29.0	24.0	83	30.0	103	18.0	62

RESERVOIR STORAGE					(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF		
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE	
KEECHULUS	157.8	106.2	130.7	119.0	Yakima River	11	120	69	
KACHESS	239.0	110.9	126.7	197.0	Antanum Creek	2	132	100	
CLE ELUM	436.9	205.3	246.0	308.0					
BUMPING LAKE	33.7	32.3	33.8	15.0					
RIMROCK	198.0	128.7	190.6	144.0					

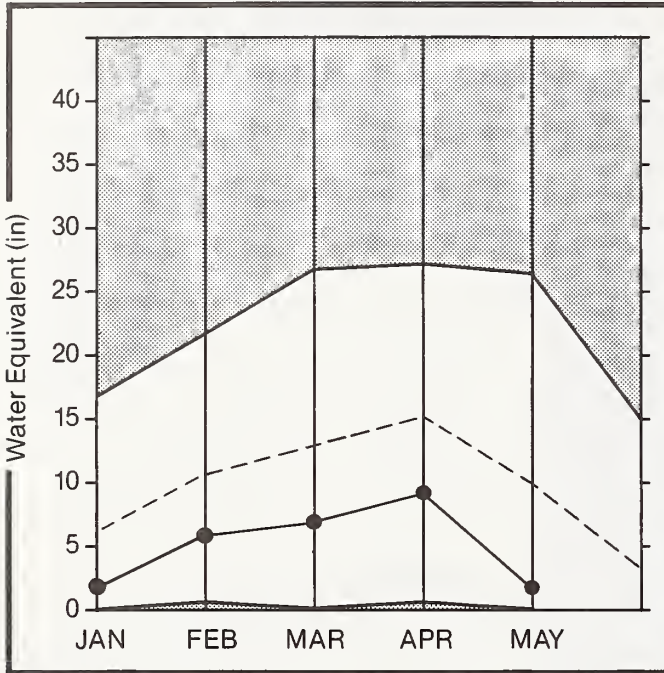
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2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

WALLA WALLA

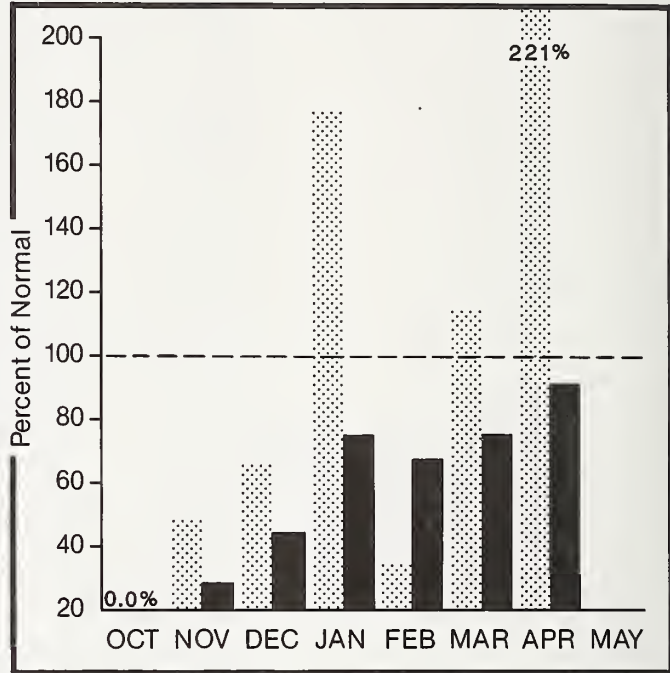
Mountain snowpack* (inches)



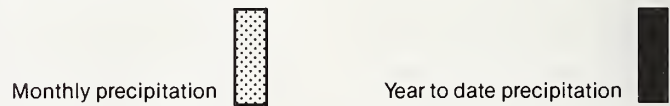
*Based on selected stations



Precipitation* (percent of normal)



*Based on selected stations



WALLA WALLA RIVER BASIN

WATER SUPPLY OUTLOOK:

Streamflow forecasts are for 45% of average in the Walla Walla Basin for the coming summer. Streamflow for the Snake River was at 73% of normal for April and 94% on the Walla Walla River. April precipitation was 221% of average, with 2.98 inches falling at the Walla Walla weather station. The water year to date precipitation has been 90% of normal. May 1 snow pack in the Walla Walla River Basin is 20% of normal. Water content at the Touchet SNOTEL site was 17.6 inches on May 1.

For more information contact your local Soil Conservation Service office.

WALLA WALLA RIVER BASIN

STREAMFLOW FORECASTS

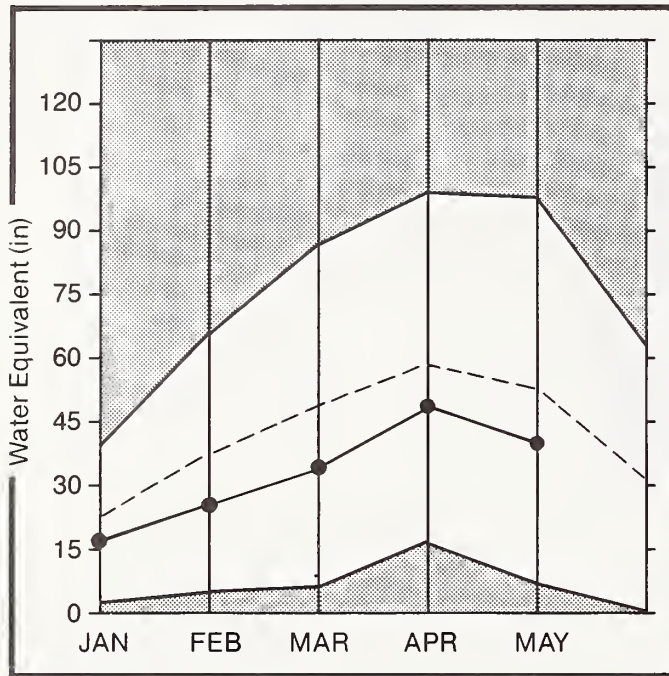
FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
MILL CREEK at Walla Walla	MAY-SEP	7.7	3.5	45	6.0	78	1.0	13
	MAY-JUL	7.5	3.4	45	6.0	80	1.0	13
	MAY-JUN	7.3	3.3	45	6.0	82	1.0	14
SF WALLA WALLA nr Milton Freewater	MAY-JUL	39.0	15.2	39	23.0	59	7.0	18
COUSE CK nr Milton Freewater	MAY-JUL	1.6	0.6	37	1.0		1.0	
PINE CREEK near Weston	MAY-JUL	0.8	0.3	38	1.0		1.0	
COLUMBIA R. at The Dalles 2	MAY-SEP	88790.0	62200.0	70	74585.0	84	55938.0	63
	MAY-JUL	74070.0	51900.0	70	62220.0	84	46665.0	63
	MAY-JUN	57430.0	40201.0	70	48240.0	84	36180.0	63

RESERVOIR STORAGE		(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR LAST YEAR AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
			Mill Creek	1	0	0





1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.
 2 - Corrected for upstream diversions or changes in reservoir storage.
 The average is computed for the 1961-85 base period.

COWLITZ AND LEWIS

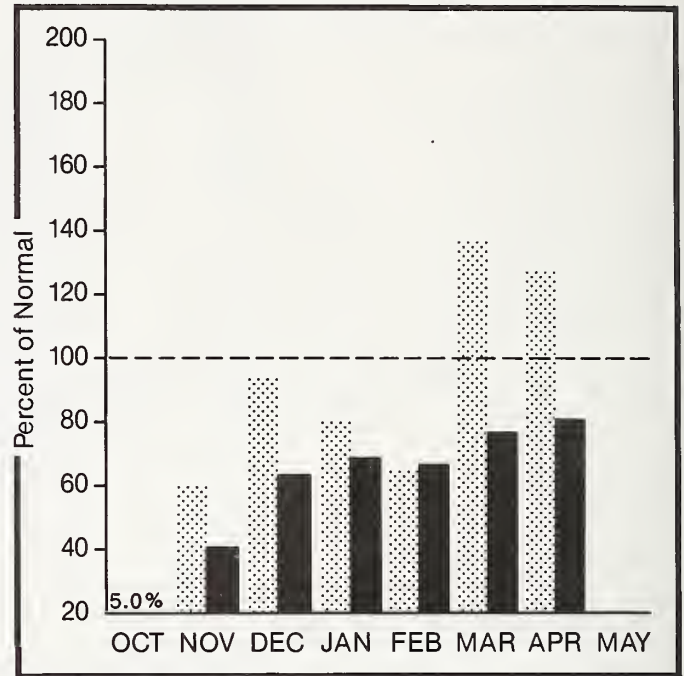
Mountain snowpack* (inches)





*Based on selected stations

Maximum  Average 
Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

COWLITZ - LEWIS RIVER BASINS

WATER SUPPLY OUTLOOK:

May 1 snow cover for the Cowlitz-Lewis Basin was 75% of normal. Summer runoff forecasts for the Lewis River are 73% and for the Cowlitz River 65%. The Paradise Park site had the maximum water content for the basin with a snow pack containing 67.1 inches of water on May 1. April precipitation was 126% of normal bringing the water year to date precipitation to 80% of average. Temperatures in the basin were two degree above normal for April.

For more information contact your local Soil Conservation Service office.

COWLITZ - LEWIS RIVER BASINS

STREAMFLOW FORECASTS

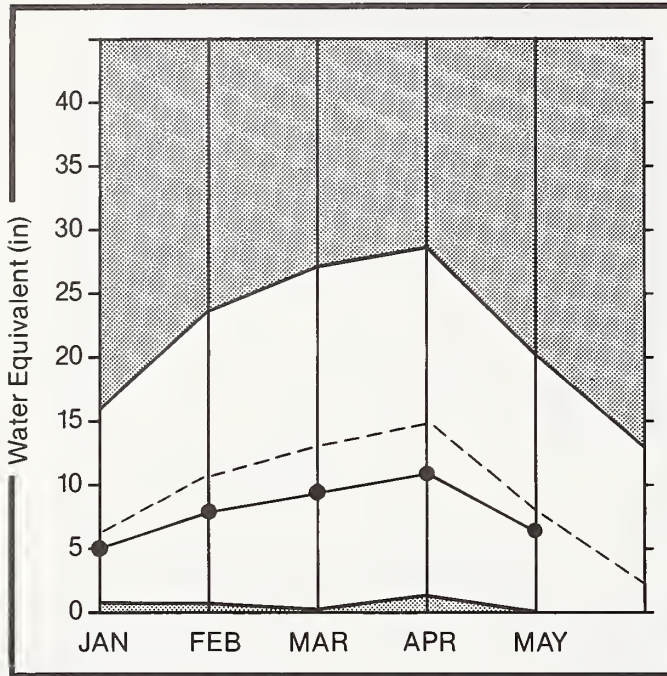
FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
LEWIS RIVER at Ariel 2	MAY-SEP	892.0	655.0	73	869.0	97	441.0	49
	MAY-JUL	732.0	535.0	73	711.0	97	359.0	49
	MAY-JUN	606.0	455.0	75	600.0	99	310.0	51
COWLITZ R. bl Mayfield Dam 2	MAY-SEP	1604.0	1040.0	65	1845.0	115	240.0	15
	MAY-JUL	1350.0	875.0	65	1553.0	115	203.0	15
	MAY-JUN	1092.0	730.0	67	1265.0	116	195.0	18
COWLITZ R. at Castle Rock 2	MAY-SEP	2050.0	1190.0	58	2255.0	110	615.0	30
	MAY-JUL	1706.0	990.0	58	1875.0	110	510.0	30
	MAY-JUN	1378.0	825.0	60	1500.0	109	525.0	38

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY I YEAR	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
					Cowlitz River	1	164 68
					Lewis River	3	129 67

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WHITE - GREEN

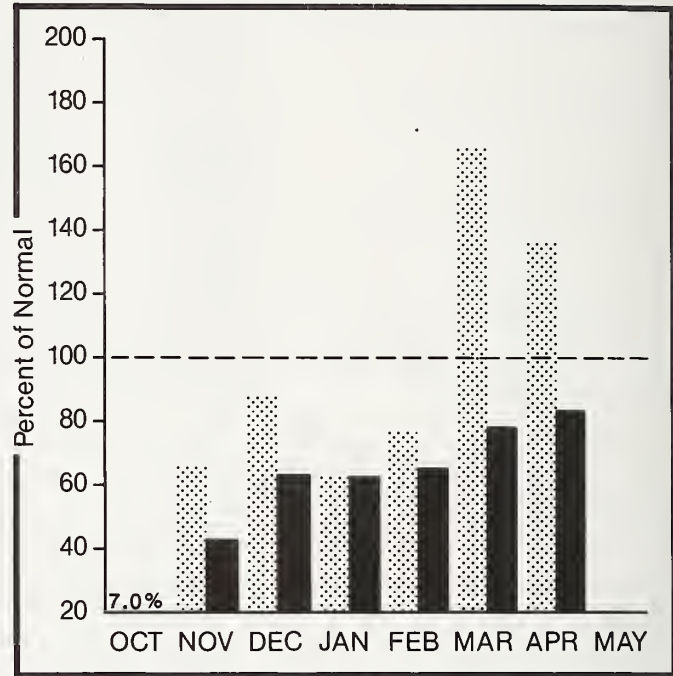
Mountain snowpack* (inches)



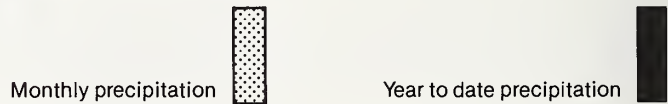
*Based on selected stations



Precipitation* (percent of normal)



*Based on selected stations



WHITE - GREEN RIVER BASINS

WATER SUPPLY OUTLOOK:

April precipitation was 135% of normal, bringing the water year to date to 83% of average. Cedar lake received 10.66 inches of precipitation during April, 130% of normal. Summer runoff is forecasted to be 82% of normal on the Green River, and 78% on the Cedar River. May 1 snow pack is 86% of normal for the basin. Temperatures averaged two degrees above average for April.

For more information contact your local Soil Conservation Service office.

WHITE - GREEN RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
GREEN RIVER b1 Howard Hanson Dam 2	MAY-SEP	207.0	170.0	82	205.0	99	135.0	65
	MAY-JUL	177.0	145.0	82	175.0	99	115.0	65
	MAY-JUN	153.0	125.0	82	151.0	99	99.0	65
CEDAR RIVER nr Cedar Falls	MAY-SEP	74.0	58.0	78	71.0	96	45.0	61
	MAY-JUL	65.5	52.0	79	63.0	96	41.0	63
	MAY-JUN	54.1	44.0	81	53.0	98	35.0	65

RESERVOIR STORAGE					(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF		
	CAPACITY	THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE	
					White River	2	99	89	
					Green River	2	0	80	
					Cedar River	0	0	0	

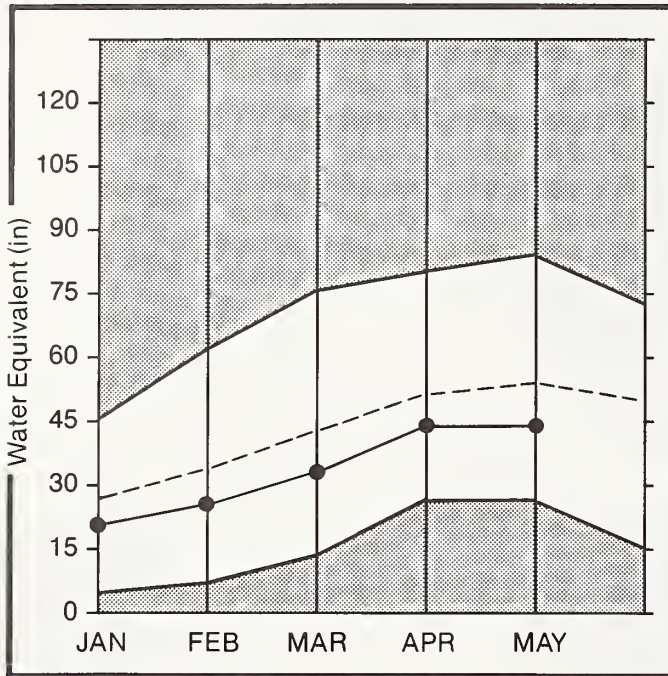
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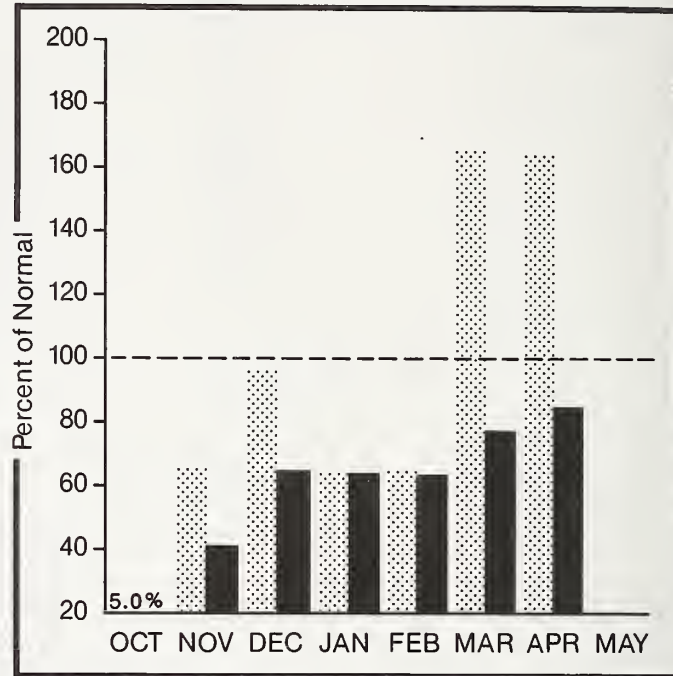
NORTH PUGET SOUND

Mountain snowpack* (inches)








*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

Maximum  Average 
Minimum  Current 

Monthly precipitation  Year to date precipitation 

NORTH PUGET SOUND RIVER BASINS

WATER SUPPLY OUTLOOK:

Snow cover in the North Puget Basin is 82% of normal for May 1 with Mount Blum snow course at 5800 feet in elevation having 65.3 inches of water content in a snow pack. Streamflow on the Skagit River during April was 167% of average. Runoff for the Skagit River is forecasted to be 72% of normal. Reservoir storage at Ross Lake is 671,300 acre feet as of May 1; 104% of average and 48% of capacity. Precipitation values for April were 130% of average with a water year to date at 84% of normal. Diablo Dam reported 9.38 inches of precipitation for April 202% of average.

For more information contact your local Soil Conservation Service office.

NORTH PUGET SOUND RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
SKAGIT RIVER at Newhalem 2	MAY-AUG	1919.0	1390.0	72	1678.0	87	1102.0	57
	MAY-SEP	2062.0	1485.0	72	1794.0	87	1176.0	57
	MAY-AUG	1919.0	1390.0	72	1678.0	87	1102.0	57
	MAY-JUL	1689.0	1215.0	72	1468.0	87	962.0	57
	MAY-JUN	1485.0	1100.0	74	1323.0	89	877.0	59

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
ROSS	1404.1	671.3	773.2	644.4	Skagit River	12	113	81
DIABLO RESERVOIR	90.6	73.8	85.3	---	Baker River	9	133	88
GORGE RESERVOIR	9.8	7.4	7.9	---	Snoqualmie River	0	0	0
					Skykomish River	2	138	85

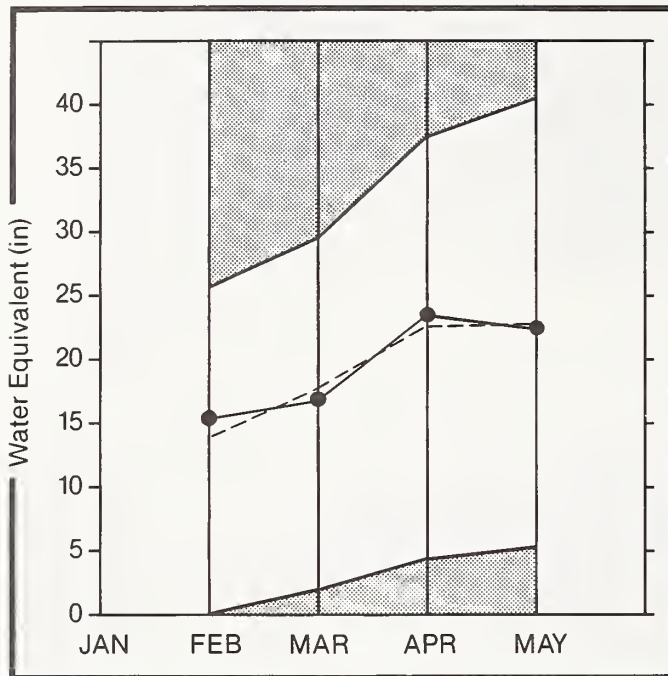
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2 - Corrected for upstream diversions or changes in reservoir storage.

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OLYMPIC

Mountain snowpack* (inches)



*Based on selected stations

Maximum



Average



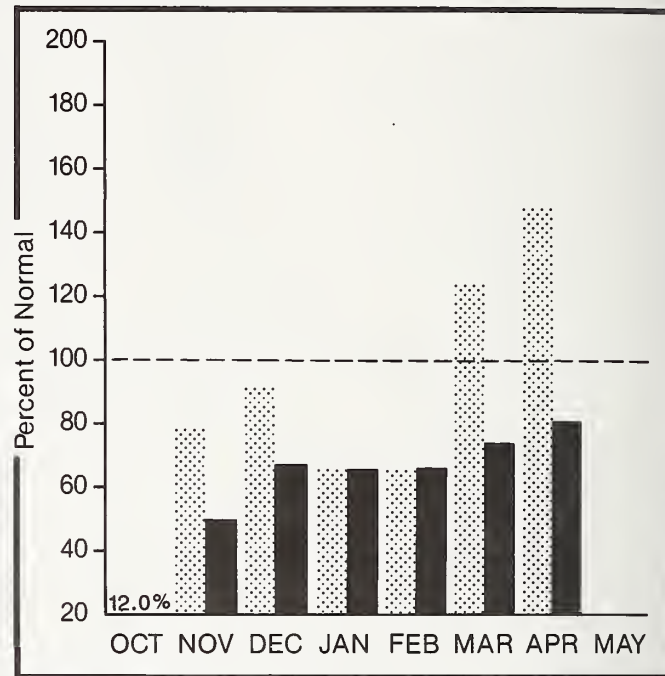
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation



Year to date precipitation



OLYMPIC PENINSULA RIVER BASINS

WATER SUPPLY OUTLOOK:

The Olympic basin remains the only area in the state with average snow cover with the snow pack at 99%. Cox Valley snow course in the Morse Creek drainage had a 96 inch snow depth with 45.2 inches of water content for 111% of average. The Basins water year to date precipitation is 80% of normal. April precipitation was 147% of average. May 1 forecasts of runoff for streams in the basin are for 84% of average on the Dungeness River and 85% on the Elwha River. Temperatures averaged two degrees above normal for April.

For more information contact your local Soil Conservation Service office.

OLYMPIC PENINSULA RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
DUNGENESS RIVER nr Sequim	MAY-SEP	137.0	115.0	84	138.0	101	92.0	67
	MAY-JUL	109.0	93.0	85	112.0	103	74.0	68
	MAY-JUN	97.0	82.0	85	98.0	101	66.0	68
ELWHA RIVER nr Port Angeles	MAY-SEP	451.0	385.0	85	462.0	102	308.0	68
	MAY-JUL	363.0	310.0	85	372.0	102	248.0	68

RESERVOIR STORAGE		(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
	THIS YEAR	LAST YEAR AVG.			LAST YR.	AVERAGE
			Dungeness River	1	158	83
			Morse Creek	1	136	111
			Elwha River	1	239	94

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The average is computed for the 1961-85 base period.

DATA CURRENT AS OF: 5/ 5/88 12:36:55

BASIN SUMMARY OF
SNOW COURSE DATA

MAY 1988

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
PENDO OREILLE RIVER							YAKIMA RIVER						
BENTON MEADOW	2370	4/28/88	0	.0	.0	.0	ANTANUM R.S.	3100	5/03/88	0	.0	.0	.0
BENTON SPRING	4920	4/28/88	4	1.7	1.6	15.4	BIG BOULDER CREEK	3200	4/27/88	0	.0	.0	8.7
BUNCHGRASS MEADOWS	5000	5/01/88	---	11.2E	18.8	29.2	BLEWETT PASS #2	4270	4/29/88	0	.0	.0	8.7
BUNCHGRASS MOWPILLOW	5000	5/01/88	---	15.3	18.8	26.4	BLEWETT PASS#2PILLOW	4270	5/01/88	---	.0S	.0	14.2
HEART LAKE TRAIL	4800	4/30/88	22	9.6	2.7	17.4	BUMPING LAKE	3450	4/29/88	0	.0	.0	8.7
HOODOO BASIN	6050	4/30/88	90	42.6	31.1	53.2	BUMPING LAKE (NEW)	3400	4/29/88	0	.0	.0	12.5
HOODOO CREEK	5900	4/30/88	80	35.5	27.2	49.3	CORRAL PASS PILLOW	6000	5/01/88	---	37.6S	32.4	38.9
LOOKOUT	5140	4/27/88	38	17.2	13.6	32.7	FISH LAKE	3370	4/28/88	31	14.5	10.1	23.8
NELSON CAN.	3100	4/27/88	11	4.6	.6	7.2	FISH LAKE PILLOW	3370	5/01/88	---	25.9S	17.8	24.6
SCHWEITZER BOHL	4800	5/02/88	13	5.0	13.5	24.2	GREEN LAKE PILLOW	6000	5/01/88	---	20.8S	15.7	20.9
SCHWEITZER RIDGE	6200	5/02/88	71	31.9	43.0	48.8	HORSE LAKE PILLOW	5400	5/01/88	---	46.7S	52.9	55.3
KETTLE RIVER							SASSE RIDGE PILLOW	4200	5/01/88	---	20.7S	14.5	33.5
BARNES CREEK CAN.	5300	4/27/88	38	16.1	9.2	20.5	TUNNEL AVENUE	2450	4/26/88	16	6.9	.0	14.3
BIG WHITE MTN CAN.	5510	4/28/88	30	12.3	9.3	19.9	WHITE PASS ES PILLOW	4500	5/01/88	---	16.9S	10.3	24.8
CARM	4100	4/28/88	0	.0	.0	1.7	ANTANUM CREEK						
FARRON CAN.	4000	5/02/88	5	1.4	1.7	10.4	ANTANUM R.S.	3100	5/03/88	0	.0	.0	.0
MONASHEE PASS CAN.	4500	4/27/88	20	7.8	3.9	12.8	GREEN LAKE PILLOW	6000	5/01/88	---	20.8S	15.7	20.9
TRAPPING CK LOW CAN.	3050	4/27/88	0	.0	.0	.0	MILL CREEK						
TRAPPING CK UP CAN.	4460	4/27/88	0	.0	.0	5.6	HIGH RIDGE PILLOW	4980	5/01/88	---	.0S	.0	20.8
OHAK LAKE, TWIN LAKES							TOUCHET #2 PILLOW	5530	5/01/88	---	17.6	7.6	--
MOUNT TOLMAN	2000	4/26/88	0	.0	--	--	LEWIS AND COWLITZ RIVERS						
TWIN LAKES	2700	4/26/88	0	.0	--	--	JUNE LAKE PILLOW						
SPOKANE RIVER							LONE PINE PILLOW	3800	5/01/88	---	13.0S	10.3	24.8
ABOVE BURKE	4100	4/27/88	18	8.0	2.8	18.6	POTATO HILL PILLOW	4500	5/01/88	---	13.7S	20.8	45.1
FOURTH OF JULY SUM	3200	4/27/88	0	.0	.0	.4	SHEEP CANYON PILLOW	4050	5/01/88	---	18.9S	7.4	27.3
LOOKOUT	5140	4/27/88	38	17.2	13.6	32.7	SPEICER MOW PILLOW	3400	5/01/88	---	31.5S	12.9	43.7
LOST LAKE	6110	4/26/88	91	39.1	35.5	60.1	SPIRIT LAKE PILLOW	3100	5/01/88	---	14.5S	11.5	26.6
MOSQUITO RIDGE	5200	5/01/88	---	17.3E	18.2	36.6	STRAWBERRY L. PILLOW	3280	5/01/88	---	1.5S	.0	.0
SNERWIN	3200	4/28/88	0	.0	.0	4.6	WHITE PASS ES PILLOW	4500	5/01/88	---	51.4S	39.8	53.0
SUNSET	5540	5/01/88	---	20.3E	18.0	32.8	WHITE RIVER						
HEWMAH LAKE							CORRAL PASS PILLOW	6000	5/01/88	---	37.6S	32.4	38.9
QUARTZ PEAK PILLOW	4700	5/01/88	---	5.2	5.3	--	HORSE LAKE PILLOW	5400	5/01/88	---	46.7S	52.9	55.3
OKAHOCAH RIVER							GREEN RIVER						
ABERDEEN LAKE CAN.	4300	4/29/88	0	.0	.0	1.7	COUGAR MTH. PILLOW	3200	5/31/88	---	12.7S	.0	20.8
BLACKHALL PEAK CAN.	6370	4/27/88	73	34.2	31.4	36.3	LESTER CREEK	3100	5/03/88	45	19.2	.0	--
BRECKA HIHE CAN.	4800	4/28/88	2	.8E	5.6	9.8	LYNN LAKE	4000	5/03/88	50	20.7	.8	20.7
BROOKHERE CAN.	3200	5/01/88	2	.8	3.2	5.1	SAHMILL RIDGE	4700	5/03/88	65	26.0	18.4	--
ENDERBY CAN.	6200	4/27/88	90	39.0	37.4	42.9	TWIN CAMP	4100	5/03/88	50	22.3	14.2	--
ESPERON CK. LO CAN.	4400	5/01/88	2	.6	1.3	8.9	SNOQUALMIE RIVER						
ESPERON CK. MID CAN.	4690	5/01/88	7	2.4	4.1	11.9	KROMONA HINE	2600	4/26/88	51	26.0	--	--
ESPERON CK. UP CAN.	5410	5/01/88	23	8.6	0.3	17.5	OLHEY PASS	3250	4/26/88	19	9.4	--	--
GREYBACK RES CAN.	5120	4/28/88	10	2.9	.0	7.7	SKYKOMISH RIVER						
HAMILTON HILL CAN.	4890	4/26/88	19	6.8	8.0	12.6	STEVEN'S PASS PILLOW	4070	5/01/88	---	39.8S	25.9	41.3
HARTS PASS PILLOW	6500	5/01/88	---	35.7S	38.8	56.7	STEVEN'S PASS SAND SD	3700	4/29/88	49	22.2	19.0	31.3
ISINTOK LAKE CAN.	5500	4/30/88	0	.0	2.4	6.3	SKAGIT RIVER						
LOST HORSE MTN CAN.	6300	4/29/88	16	5.4	3.7	10.3	BEAVER CREEK TRAIL	2200	4/29/88	0	.0	.0	4.9
MCCULLOCH CAN.	4200	4/28/88	0	.0	.0	2.4	BEAVER PASS	3680	4/28/88	64	28.0	22.7	29.3
MISSEZULA MTN CAN.	5090	4/25/88	8	2.2	5.3	7.0	BROWN TOP AM	6000	4/28/88	128	59.0	55.0	63.3
MISSION CREEK CAN.	5800	4/29/88	44	17.2	9.5	21.8	DEVILS PARK	5900	4/28/88	85	37.2	38.0	46.2
MONASHEE PASS CAN.	4500	4/27/88	20	7.8	3.9	12.8	FREEZEOUT CK. TRAIL	3500	4/29/88	13	6.1	1.7	7.8
MT. KOBAY CAN.	5900	4/30/88	25	9.3	8.7	13.3	GRANITE CREEK	3500	4/28/88	22	8.4	3.6	12.6
OYAMA LAKE CAN.	4400	4/27/88	2	.6	.0	3.1	HARTS PASS PILLOW	6500	5/01/88	---	35.7S	38.8	56.7
POSTILL LAKE CAN.	4500	4/29/88	0	.0	.0	6.4	KLESTLWKA CAN.	3710	4/26/88	16	6.4	.0	8.3
RUSTY CREEK	4000	4/27/88	0	.0	--	.6	LIGHTNING LAKE CAN.	4000	4/27/88	30	11.0	8.8	11.5
SALMON MEADOWS	4500	4/27/88	0	.0	--	5.2	LYMAN LAKE PILLOW	5900	5/01/88	---	62.1S	55.5	67.5
SALMON MOWS PILLOW	4500	5/01/88	---	.0S	.0	7.4	MEADOWS CABIN	1900	4/28/88	0	.0	.0	1.3
SILVER STAR MTN CAN.	6000	5/01/88	51	22.7	22.9	29.7	NEW HOZOMEEN LAKE	2800	4/29/88	0	.0	.0	6.0
SUMMERLAND RES CAN.	4200	4/30/88	0	.0	1.1	6.3	BAKER RIVER						
SUNDAY SUMMIT CAN.	4300	4/27/88	0	.0	.0	.8	DOCK BUTTE AM	3800	4/26/88	125	61.2	40.6	70.8
TROUT CREEK CAN.	4690	4/28/88	1	.3	.7	4.8	EASY PASS AM	5200	4/26/88	166	78.0	70.5	89.2
VASEUX CREEK CAN.	4600	4/28/88	0	.0	.0	3.0	JASPER PASS AM	5400	4/26/88	167	81.8	74.0	93.0
WHITE ROCKS MTN CAN.	6000	4/29/88	31	12.3	13.8	22.4	MARTEN LAKE AM	3600	4/26/88	144	72.0	59.3	78.8
METHOM RIVER							MT. BLUM AM	5800	4/26/88	136	65.3	59.8	72.3
HARTS PASS PILLOW	6500	5/01/88	---	35.7S	38.8	56.7	ROCKY CREEK AM	2100	4/26/88	51	28.6	.0	20.7
RUSTY CREEK	4000	4/27/88	0	.0	--	.6	SCHREIBERS MOW AM	3400	4/26/88	90	45.9	25.9	59.7
SALMON MEADOWS	4500	4/27/88	0	.0	--	5.2	SF THUNDER CK AM	2200	4/26/88	0	.0	.0	1.3
SALMON MOWS PILLOW	4500	5/01/88	---	.0S	.0	7.4	WATSON LAKES AM	4500	4/26/88	120	58.8	38.8	70.7
CHELAN LAKE BASIN							DUNCENESS RIVER						
LYNAH LAKE PILLOW	5900	5/01/88	---	62.4S	55.5	67.5	DEER PARK	5200	4/27/88	39	17.5	11.1	21.1
MIRROR LAKE PILLOW	5600	5/01/88	---	38.5S	35.7	33.5	HORSE CREEK						
PARK CK RIDGE PILLOW	4600	5/01/88	---	27.9S	30.9	39.9	COX VALLEY	4500	4/29/88	96	45.2	33.2	40.8
HEMATEE RIVER							ELWA RIVER						
BERNE-HILL CREEK	3170	4/29/88	52	23.5	--	20.8	NURRICANE						
BLEWETT PASS #2	4270	4/29/88	0	.0	.0	8.7		4500	4/30/88	52	22.5	9.4	23.9
BLEWETT PASS#2PILLOW	4270	5/01/88	---	.0S	.0	14.2	COLOCKUM CREEK						
CHIMAUUM G.S.	2500	4/29/88	0	.0	--	1.1							
LYNAH LAKE PILLOW	5900	5/01/88	---	62.4S	55.5	67.5							
MERRITT	2140	4/29/88	0	.0	--	4.1							
STEVEN'S PASS PILLOW	4070	5/01/88	---	39.8S	25.9	41.3							
STEVEN'S PASS SAND SD	3700	4/29/88	49	22.2	19.0	31.3							
TROUGH #2 PILLOW													
	5310	5/01/88	---	.0S	.0	5.6							

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